Fire, Building & Life Safety Division Fire Service Line Extension / Remote Fire Department Connection Submittal/Inspection Handout PAGE 1 of 1 Revised: 1/1/2009 Category: Construction/Plan Review Code Reference: City of Goodyear Engineer Standards

Purpose

The purpose of this handout is to document the Fire Department requirement for a fire service line extension and/or remote fire department connection (FDC) submittal for review, permitting, and to provide a thorough and efficient plan review process.

General Statement

Engineering requires a submittal and permit for off site, and on site utilities. The Fire Department requires a separate fire submittal for the fire service line extension from a on site connection into a structure for the fire sprinkler system riser, and/or remote FDC from the fire riser to a remote location for FDC requirement of 150 feet maximum to a fire hydrant.

For Fire Department purposes the fire service line extension is defined as that section of piping from the isolation valve on the site fire loop, if one exists, or the customer side of a double detector check valve to the flanged stub up 6" Above Finished Floor (AFF) for the fire riser inside the structure it serves.

For Fire Department purposes the remote FDC is defined as that section of piping from the structure fire riser to a remote location within 150 feet maximum of a fire hydrant.

A separate submittal for the installation of the fire service line extension and/or remote FDC shall be submitted for review prior to issuance of fire sprinkler system permit. A fire sprinkler system can be submitted, approved, and permit placed on hold until the fire service line extension and/or remote FDC are submitted for review. This procedure will assure consistency, accuracy, and that plan submittals are reviewed and permits issued in a timely fashion.

The Fire Department shall be included in all pre-construction meetings. This will help the Fire Department ensure that the project has the information needed to be in full compliance with currently adopted fire codes.

Project Name:		
Project Address:		
I	acknowledge and agree to comply with the above statement extension and remote FDC submittal requirements.	
Company Name:		
Signature and Title:	Date:	

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INSPECTION HANDOUT

INSTALLATION

Preconstruction meeting

- Plans approved
- Permits issued
- Approved materials
- Contract documents on site
- COG details
- MAG specs and details
- Scope of work explained
- Construction schedule
- Blue stake cleared

Construction begins

Excavation

Depth of trench (36 inches to top of pipe for traffic areas/18 inches for non traffic areas) Trench bedding (firm)/ eliminate all voids

• Pipe installation, C-900 (PVC) or DIP (ductile iron pipe)

Pipe & bells/mechanical joints/mega lugs flush with trench bedding Riser in structure minimum 18 inches clearance, center of riser to adjacent walls Riser in structure minimum 4 inch larger than 4 inch pipe riser or larger/2 inch annular space/NFPA 13 section 9.3.4.2

• Thrust blocks, MAG detail 380

Check prior to pour and after pour

• Back fill trench, MAG spec Section 601

On site 90% compaction/ native soil can be used

TESTING

Compaction tests, MAG spec Table 601-2

Loading pipe

- Request water and valve operation from Goodyear/Liberty Water
- Fill Fire Service Line Extension and/or FDC service line and remove air
- Pressure test for two hours at 200 psi minimum
- Flush pipe and cap
- Connect fire sprinkler system to riser flange

DOCUMENTATION

Fire Inspector

 Inspection reports Flush certificate (NFPA 13) 	
Project Name:	Project Address:
Responsible Party:	